

ESCALANTE RIVER BASIN

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09337000 PINE CREEK NEAR ESCALANTE, UT

LOCATION.--Lat $37^{\circ}51'45''$, long $111^{\circ}38'07''$, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 34 S., R. 2 E., Garfield County, Hydrologic Unit 14070005, Dixie National Forest, on right bank 0.1 mi downstream from "The Box" canyon, 0.2 mi upstream from unnamed right bank tributary, and 7.0 mi north of Escalante.

DRAINAGE AREA.--68.1 mi².

PERIOD OF RECORD.--July 1950 to September 1955, July 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since June 16, 1994. Elevation of gage is 6,400 ft above NGVD of 1929, from topographic map. Prior to August 15, 1978, on left bank at same datum.

REMARKS.--Records good except for daily discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Some regulation of low flow by several small headwater reservoirs (combined capacity 2,120 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s, Aug 2, 1967, gage height, 7.72 ft, from rating curve extended above 180 ft³/s on basis of slope-area measurement at gage heights, 4.21 ft and 7.52 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 24	1435	*108	*3.36				No other peak greater than base discharge.

Minimum daily discharge, 0.50 ft³/s, Jan 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.00	1.3	e0.90	e0.80	e0.60	e0.90	1.4	3.7	2.0	1.9	0.74	0.66
2	1.3	1.3	e0.90	e0.80	e0.60	e0.90	1.9	4.0	1.9	1.7	0.91	0.66
3	2.4	1.6	e0.90	e0.70	e0.80	e1.0	2.8	7.4	2.6	1.5	1.1	0.63
4	1.7	1.4	e0.80	e0.60	e0.70	e1.0	2.3	11	2.6	1.2	0.91	0.64
5	1.3	1.4	e0.90	e0.60	e0.70	e1.1	1.9	14	2.7	1.1	0.92	0.73
6	1.2	1.3	e0.90	e0.60	e0.70	e1.1	2.0	17	2.9	1.1	0.88	0.72
7	1.2	1.4	e1.0	e0.70	e0.70	e1.2	2.3	12	2.9	0.98	1.1	0.70
8	1.2	1.3	e0.90	e0.70	e0.70	e1.3	2.3	11	2.9	0.90	0.78	0.67
9	1.2	1.3	e0.70	e0.70	e0.70	e1.4	2.3	10	2.9	0.89	0.64	0.72
10	1.2	1.4	e0.70	e0.70	e0.60	e1.4	2.2	8.6	3.1	0.86	0.62	1.1
11	1.2	1.3	e0.80	e0.70	e0.70	e1.4	2.1	7.1	3.2	0.84	0.61	0.84
12	1.2	1.3	e0.70	e0.70	e0.60	e1.4	2.0	4.7	3.2	0.80	0.59	0.86
13	1.2	1.7	e0.70	e0.70	e0.60	e1.4	1.9	3.9	3.0	0.76	0.59	0.77
14	1.1	1.4	e0.80	e0.70	e0.70	e1.5	2.0	3.4	2.9	0.72	0.59	0.70
15	1.1	1.3	e0.70	e0.70	e0.70	e1.4	2.0	3.1	2.8	0.78	0.58	0.67
16	1.1	1.5	e0.70	e0.70	e0.80	e1.5	2.0	2.8	2.9	0.95	0.61	0.66
17	1.1	1.4	e0.70	e0.70	e0.90	1.6	2.2	2.7	3.1	1.2	0.65	0.66
18	1.1	1.3	e0.80	e0.70	e1.0	1.6	2.4	2.6	3.0	1.0	0.66	0.66
19	1.1	1.3	e0.90	e0.80	e0.90	1.7	2.2	2.4	2.8	0.93	3.7	2.5
20	1.1	1.4	e1.0	e0.80	e0.90	1.8	2.0	2.4	2.7	0.91	1.2	1.8
21	1.1	1.4	e1.0	e0.70	e0.90	1.8	2.0	2.3	2.6	0.89	1.6	1.2
22	1.1	e0.90	e1.1	e0.70	e0.90	1.8	2.1	2.2	2.6	0.81	1.8	1.2
23	1.1	e0.80	e1.0	e0.70	e1.0	1.9	2.2	2.3	2.5	0.85	0.93	1.2
24	1.1	e0.90	e1.0	e0.70	e0.90	1.8	2.1	2.1	2.4	4.2	0.81	1.2
25	1.1	e1.0	e1.1	e0.70	e0.80	1.7	2.1	1.9	2.3	1.2	0.80	1.1
26	1.2	e0.90	e1.0	e0.50	e0.90	1.7	2.1	2.7	2.4	1.5	0.74	1.1
27	1.3	e0.90	e0.80	e0.60	e0.90	1.6	2.5	6.1	3.9	1.4	0.71	1.1
28	1.3	e0.90	e0.70	e0.70	e0.80	1.4	3.2	5.0	2.5	1.4	0.70	1.0
29	1.2	e0.90	e0.70	e0.80	e0.80	1.4	5.9	3.8	2.5	0.98	0.70	1.2
30	1.2	e0.90	e1.0	e0.80	---	1.5	4.4	3.2	2.2	0.87	0.68	1.2
31	1.2	---	e0.80	e0.70	---	1.5	---	2.5	---	0.73	0.66	---
TOTAL	37.90	37.10	26.60	21.70	22.50	44.70	70.8	167.9	82.0	35.85	28.51	28.85
MEAN	1.22	1.24	0.86	0.70	0.78	1.44	2.36	5.42	2.73	1.16	0.92	0.96
MAX	2.4	1.7	1.1	0.80	1.0	1.9	5.9	17	3.9	4.2	3.7	2.5
MIN	1.0	0.80	0.70	0.50	0.60	0.90	1.4	1.9	1.9	0.72	0.58	0.63
AC-FT	75	74	53	43	45	89	140	333	163	71	57	57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-1955, 1958-2004, BY WATER YEAR (WY)

MEAN	3.10	2.85	2.26	2.23	2.24	2.75	6.75	16.7	7.04	5.42	4.74	4.06
MAX	9.65	8.09	6.25	6.20	6.70	6.78	28.9	50.9	34.5	25.4	15.2	16.5
(WY)	(1999)	(1999)	(1984)	(1999)	(1984)	(1999)	(1987)	(1987)	(1958)	(1983)	(1983)	(1998)
MIN	0.00	0.00	0.00	0.05	0.04	0.05	0.07	0.21	0.00	0.00	0.00	0.00
(WY)	(1965)	(1965)	(1965)	(1965)	(1965)	(1965)	(1977)	(1977)	(1955)	(1954)	(1954)	(1955)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1951-55, 1958-2004
ANNUAL TOTAL	759.95	604.41	
ANNUAL MEAN	2.08	1.65	5.03
HIGHEST ANNUAL MEAN			12.5
LOWEST ANNUAL MEAN			0.62
HIGHEST DAILY MEAN	15	Apr 27	May 18, 1964
LOWEST DAILY MEAN	0.52	Jul 19	Mar 12, 1954
ANNUAL SEVEN-DAY MINIMUM	0.54	Jul 14	Jun 17, 1954
ANNUAL RUNOFF (AC-FT)	1,510	1,200	3,650
10 PERCENT EXCEEDS	3.8	2.9	9.2
50 PERCENT EXCEEDS	1.7	1.1	3.0
90 PERCENT EXCEEDS	0.70	0.70	0.62

e Estimated

